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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,232	12/28/2001	Katuo Hagiwara	1600-0129P	9870
2292	7590	02/03/2004	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			YOON, TAE H	
PO BOX 747			ART UNIT	
FALLS CHURCH, VA 22040-0747			PAPER NUMBER	

1714

DATE MAILED: 02/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/019,232

Applicant(s)

HAGIWARA ET AL.

Examiner

Tae H Yoon

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

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Correction of typo is needed in the specification. For example "e" is missing from words in each line 1 of pages 5, 18 and 19 and "f" should be "of" in the second line from the bottom of page 17. Also, the last line of page 17 does not make sense.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant failed to describe adequately how the recited meq in terms of hydrochloric acid is related to the amount of acid monomer(s) for a copolymer, and thus undue experimentation is needed. For example, Comparative Ex .3 shows a copolymer of 25 % acrylonitrile, 60 % of 1,3-butadiene, 5% of methacrylic acid and 10 % of acrylic acid which falls within the claimed monomeric composition for a copolymer, but it does not yield the recited meq., and Example 2 using 15 % of methacrylic acid yields the recited meq.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The examiner's position is that any copolymer comprising monomeric components recited in the claim would have the recited meq. and chemical stability index values inherently.

Claims 1-4 and 8-10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ozawa et al (US 5,369,166).

Ozawa et al teach the instant latex copolymer and its use in making a thin glove by a dip forming in table 1 wherein the use of 2.5 to 14.0 % of methacrylic acid is seen. Said latex copolymer falls within the scope of the instant claim. Thus, the instant invention lacks novelty.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as obvious over Ozawa et al (US 5,369,166) and Branlard et al (US 3,984,609)

The instant invention further recites a phenolic antioxidant over Ozawa et al who teach employing antioxidants at col. 5, line 45. Branlard et al teach rubbery latexes and employing phenolic antioxidants such as 2,5'-di-t-amylhydroquinone at col. 3, lines 33-42.

It would have been obvious to one skilled in the art at the time of invention to utilize phenolic antioxidants of Branlard et al in Ozawa et al since Ozawa et al teach employing antioxidants and since the use of phenolic antioxidants with rubbery latexes is a routine practice as taught by Branlard et al.

Claims 1-4 and 9 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kuan et al (US 4,436,857).

Kuan et al teach the instant latex copolymer and its use as a dip forming in examples and at col. 15, line 62 to col. 16, line 11 wherein the use of about 2-5% of carboxylic acids is seen. Said latex copolymer falls within the scope of the instant claim. Thus, the instant invention lacks novelty.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as obvious over Kuan et al (US 4,436,857) and Branlard et al (US 3,984,609)

The instant invention further recites a phenolic antioxidant over Kuan et al who teach employing antioxidants at col. 6, line 19. Branlard et al teach rubbery latexes and employing phenolic antioxidants such as 2,5'-di-t-amylhydroquinone at col. 3, lines 33-42.


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It would have been obvious to one skilled in the art at the time of invention to utilize phenolic antioxidants of Branlard et al in Kuan et al since Kuan et al teach employing antioxidants and since the use of phenolic antioxidants with rubbery latexes is a routine practice as taught by Branlard et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

  
Tae H Yoon  
Primary Examiner  
Art Unit 1714

THY/January 23, 2004